



Title: METHOD AND SYSTEM FOR PROVIDING  
DIAGNOSTICS FOR A WORK MACHINE

Inventor: Tara L. Cobble et al  
Attorney Docket No. 00-104

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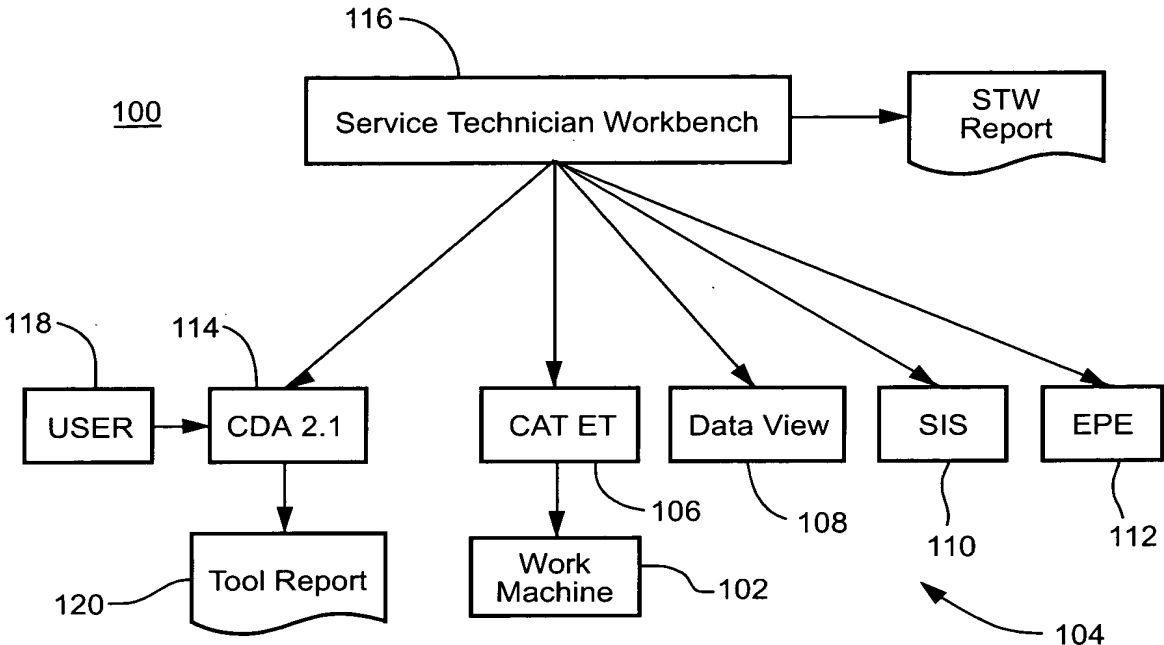
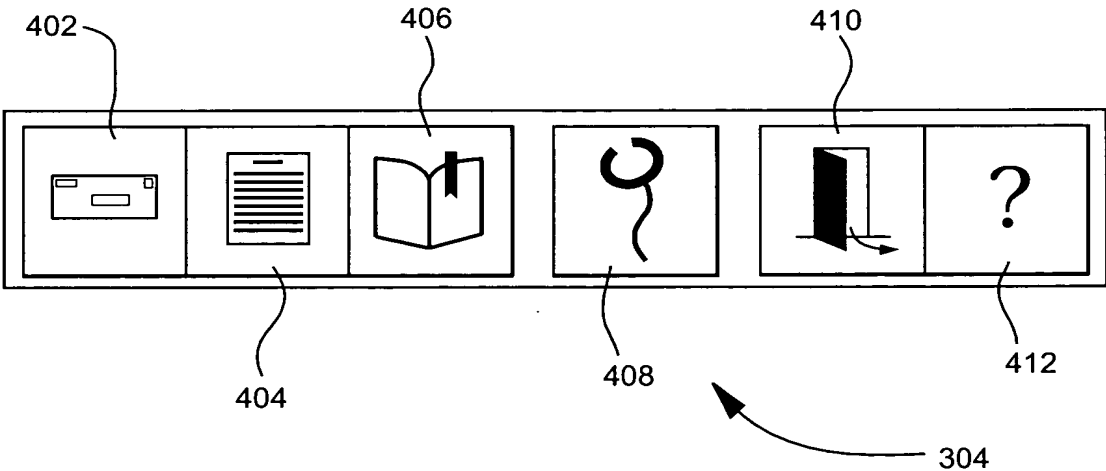
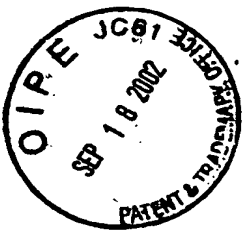


FIG - 1

FIG - 4





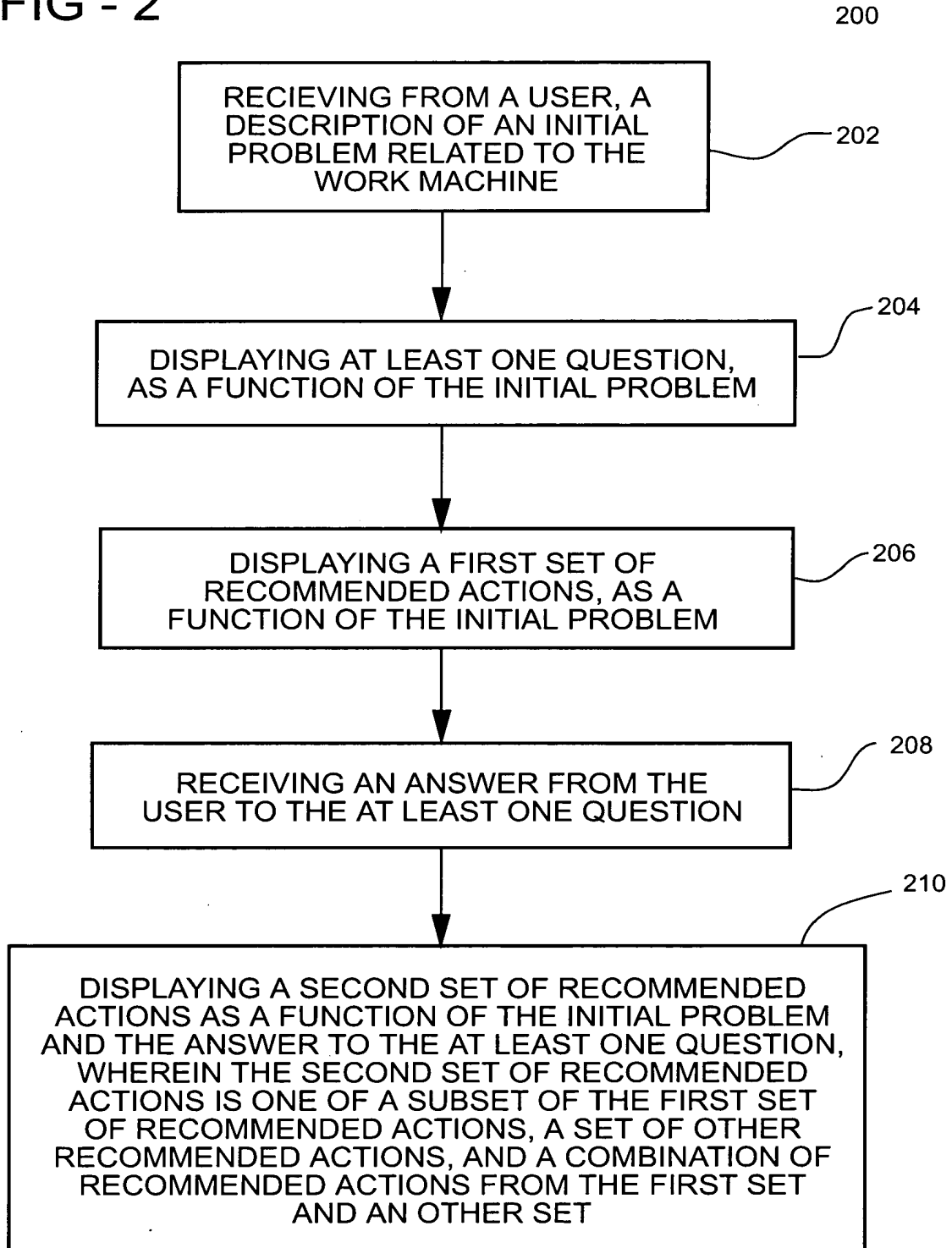
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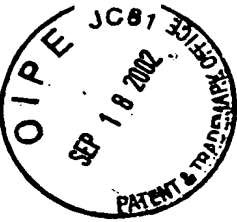
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FIG - 2





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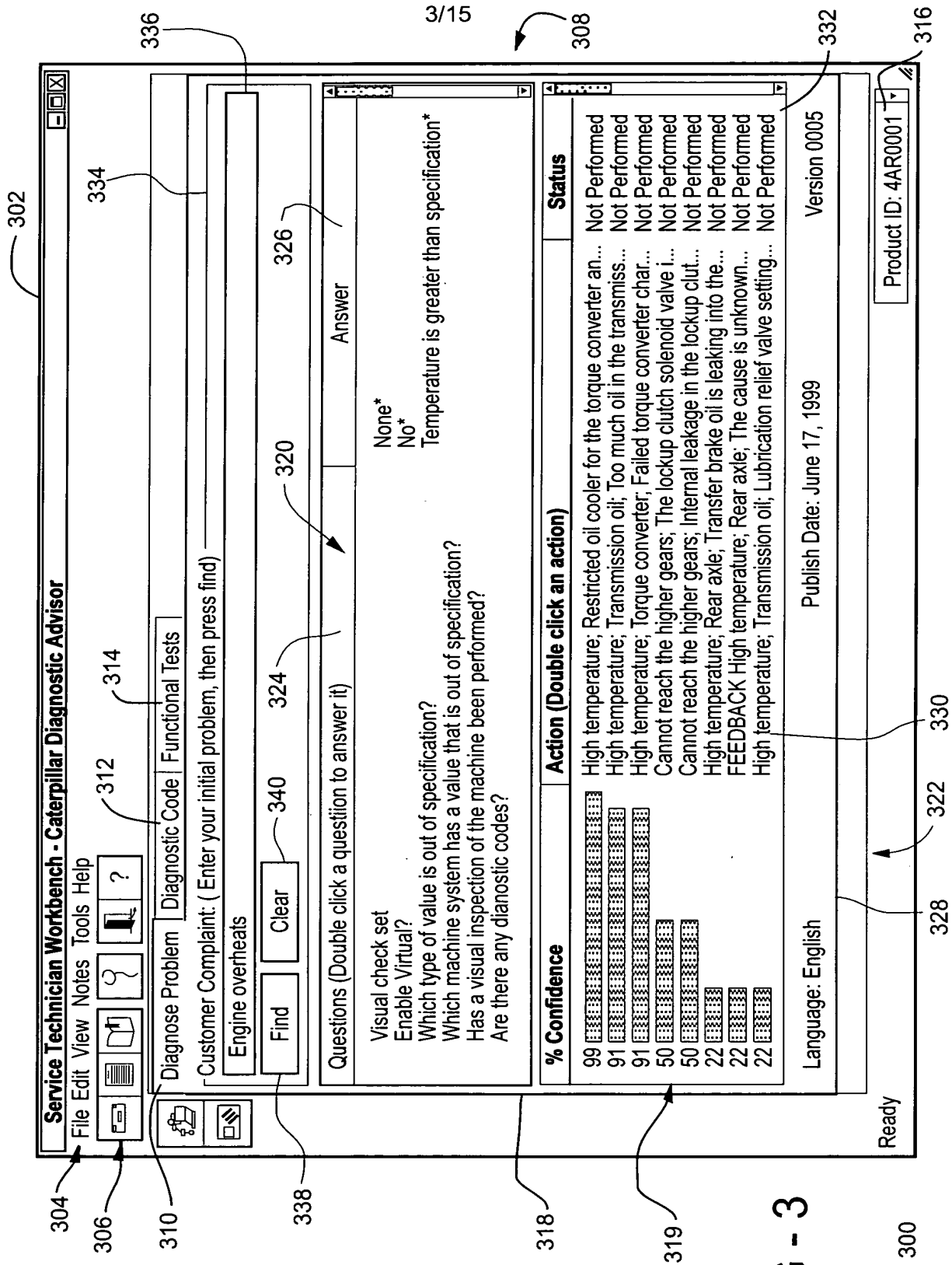
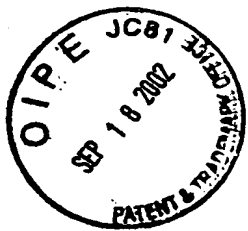


FIG - 3



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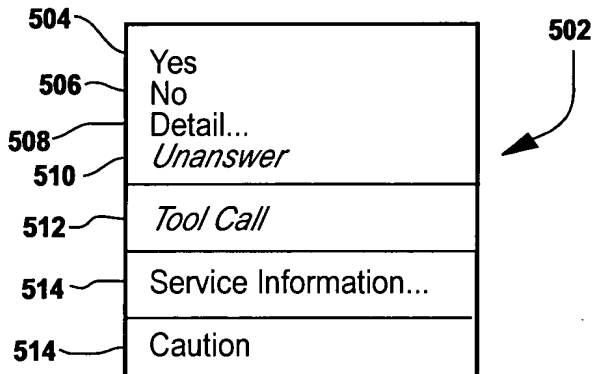


FIG - 5

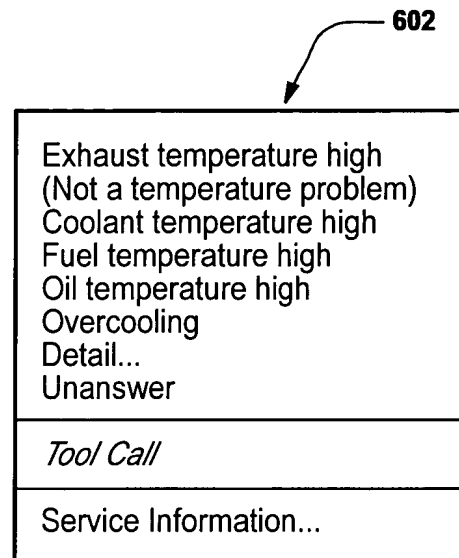


FIG - 6

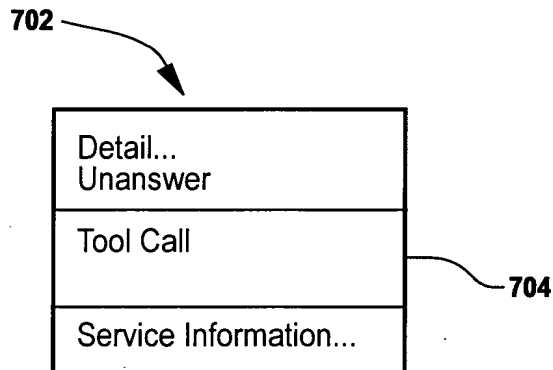


FIG - 7

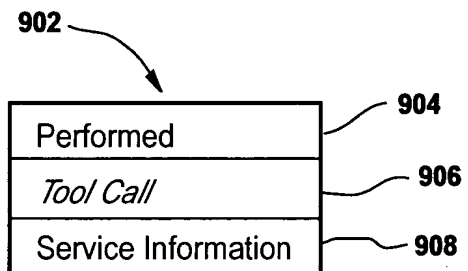


FIG - 9

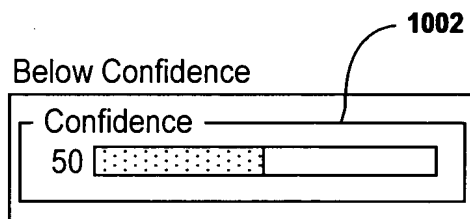


FIG - 10A

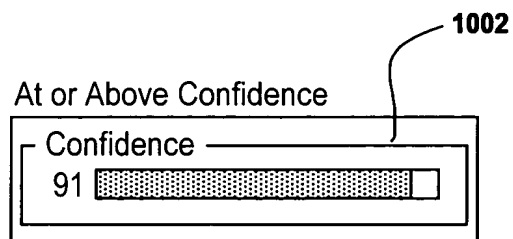
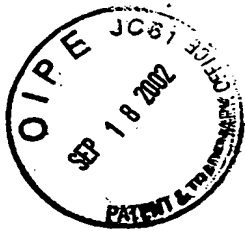


FIG - 10B

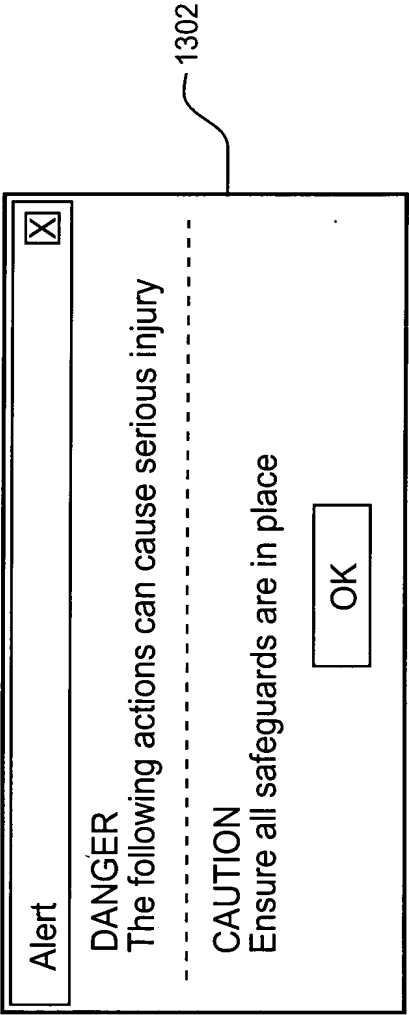
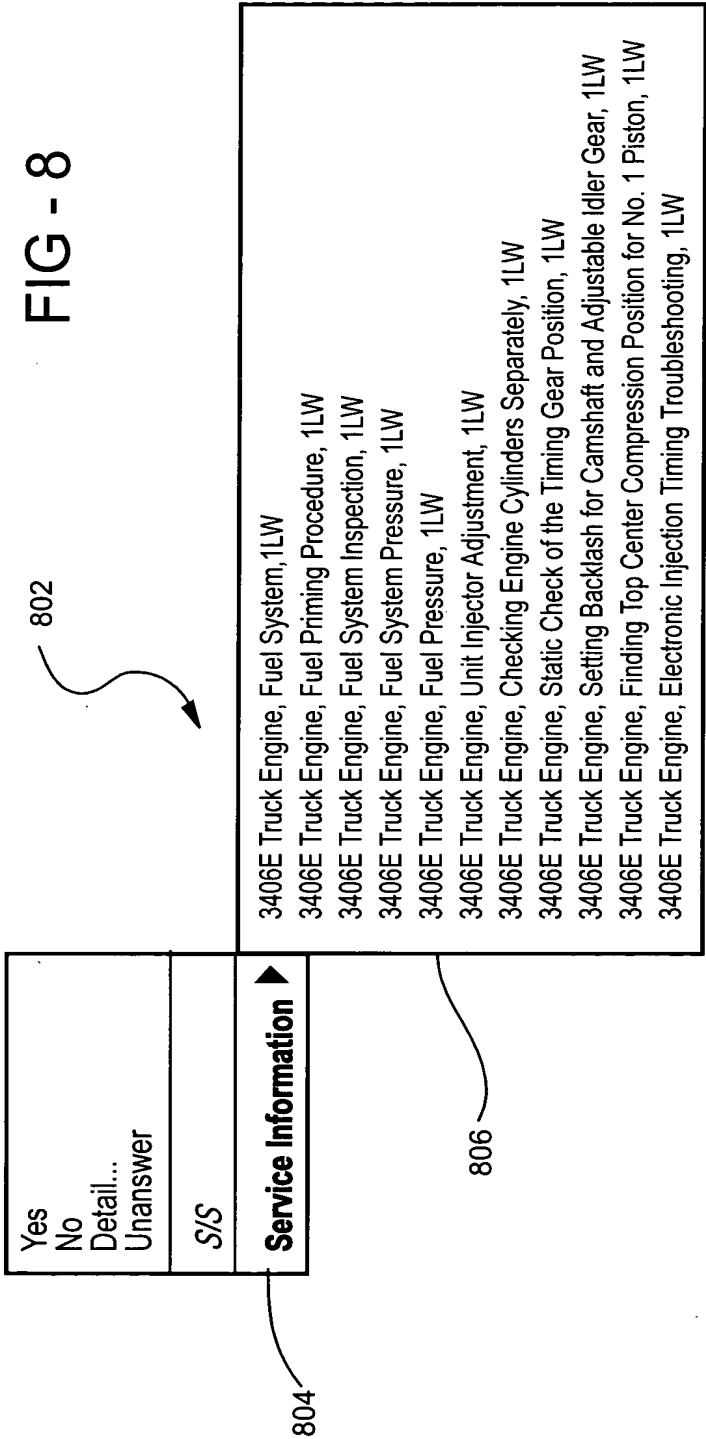


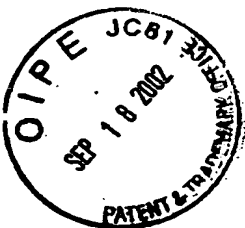
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1104

1106

1110

1102

1116

1118

1114

1126

1124

1122

1120

1108

1112

Question Detail

Question

Clean and inspect the fuel pressure regulator. Does this correct the original problem?

Service Information

TROUBLESHOOT ACTIVE DIAGNOSTIC CODES FIRST

1. Click the READ CODES button to download active and logged codes directly from CAT Electronic Technician-OR--Enter a diagnostic code in the Description box with the CID-FMI format to take Diagnostics

☐ 3406E Truck Engine, Electronic Injection Timing Troubleshooting 1LW

☐ 3406E Truck Engine, Finding Top Center Compression Position For No. 1 Piston, 1LW

☐ 3406E Truck Engine, Setting Backlash For Camshaft And Adjustable Idle Gear, 1LW

Answer

Yes

No

Delete Answer

Measurements

Start

Stop

Description

Value

Units

Hydraulic Oil Temperature

227

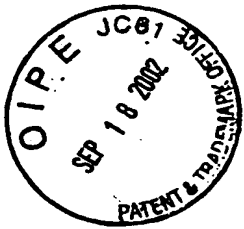
Degrees F

OK

Cancel

Next

Help



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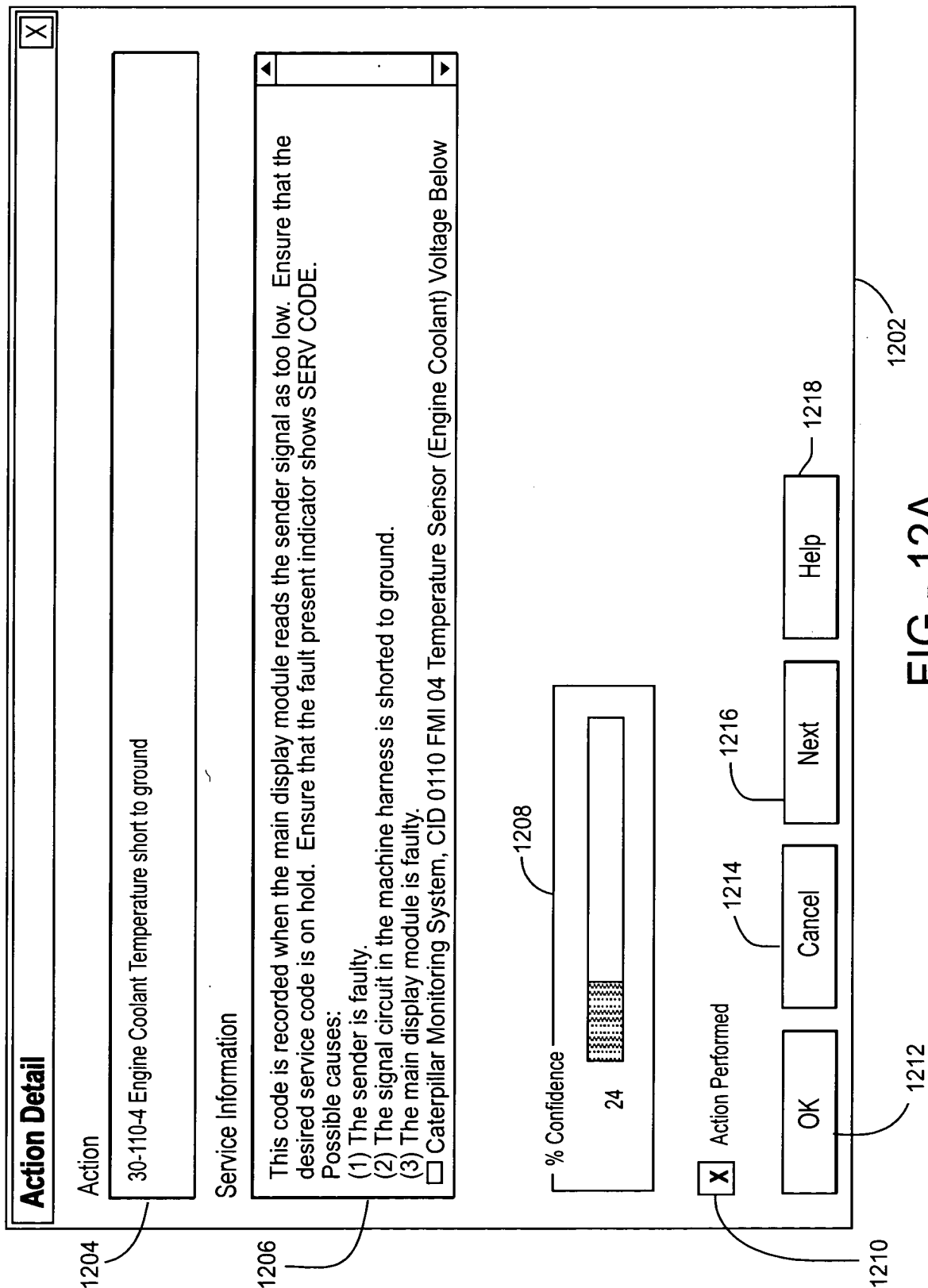
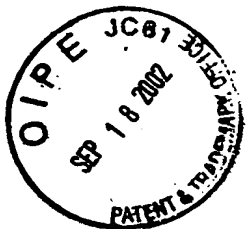


FIG - 12A



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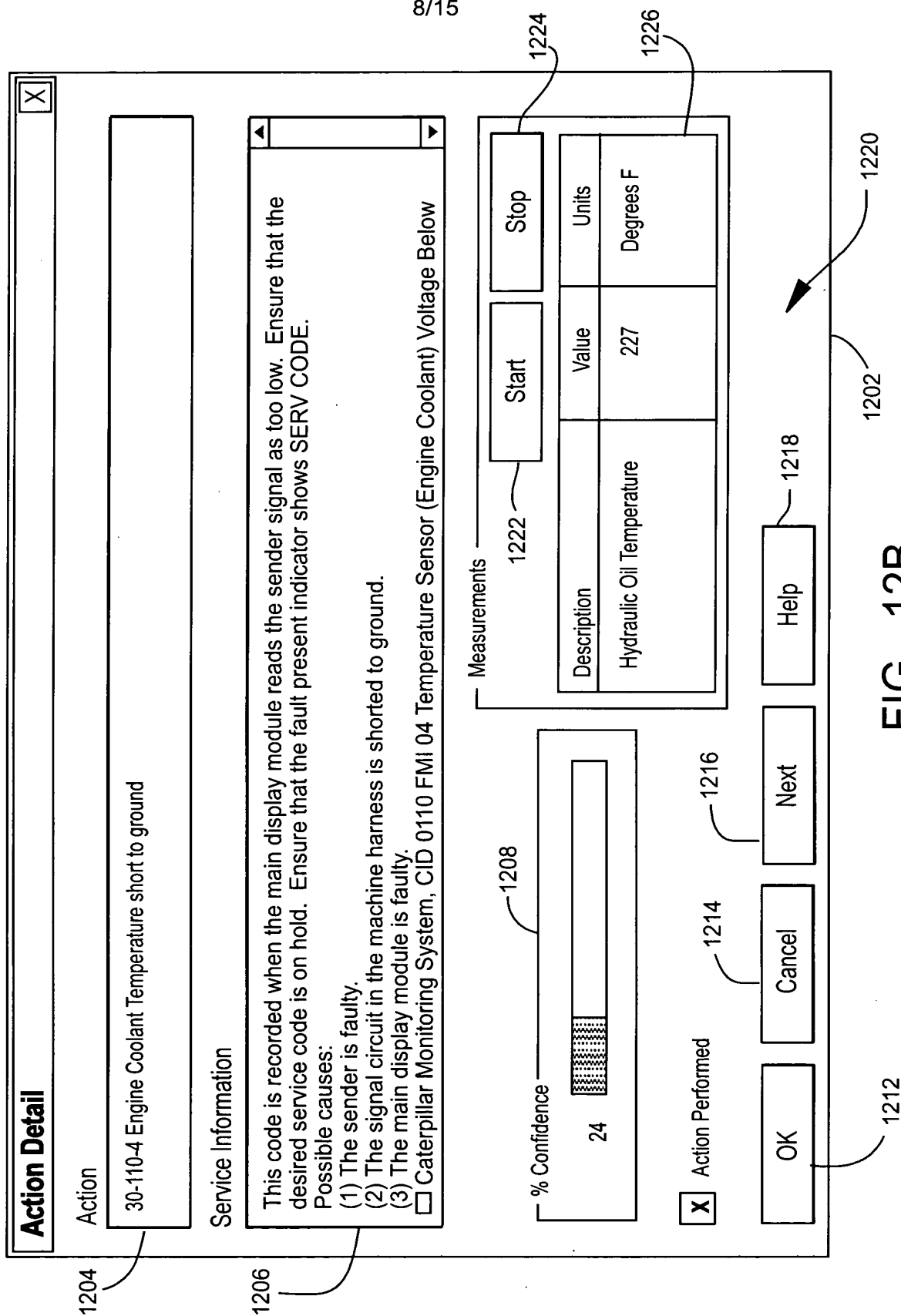
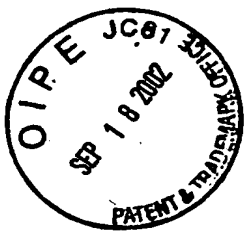


FIG - 12B

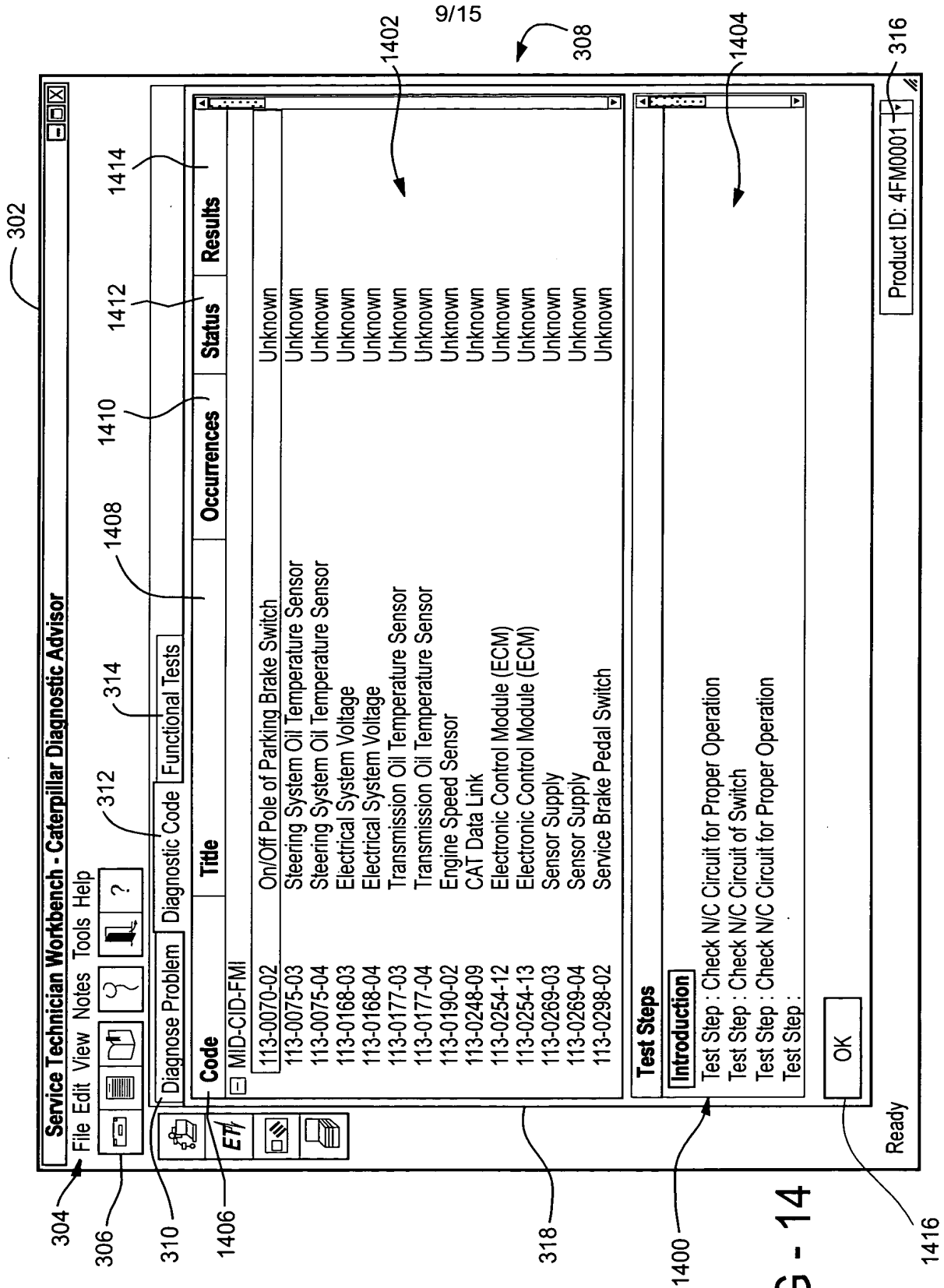


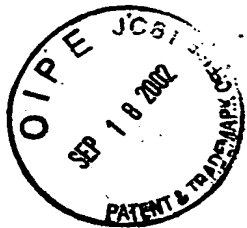


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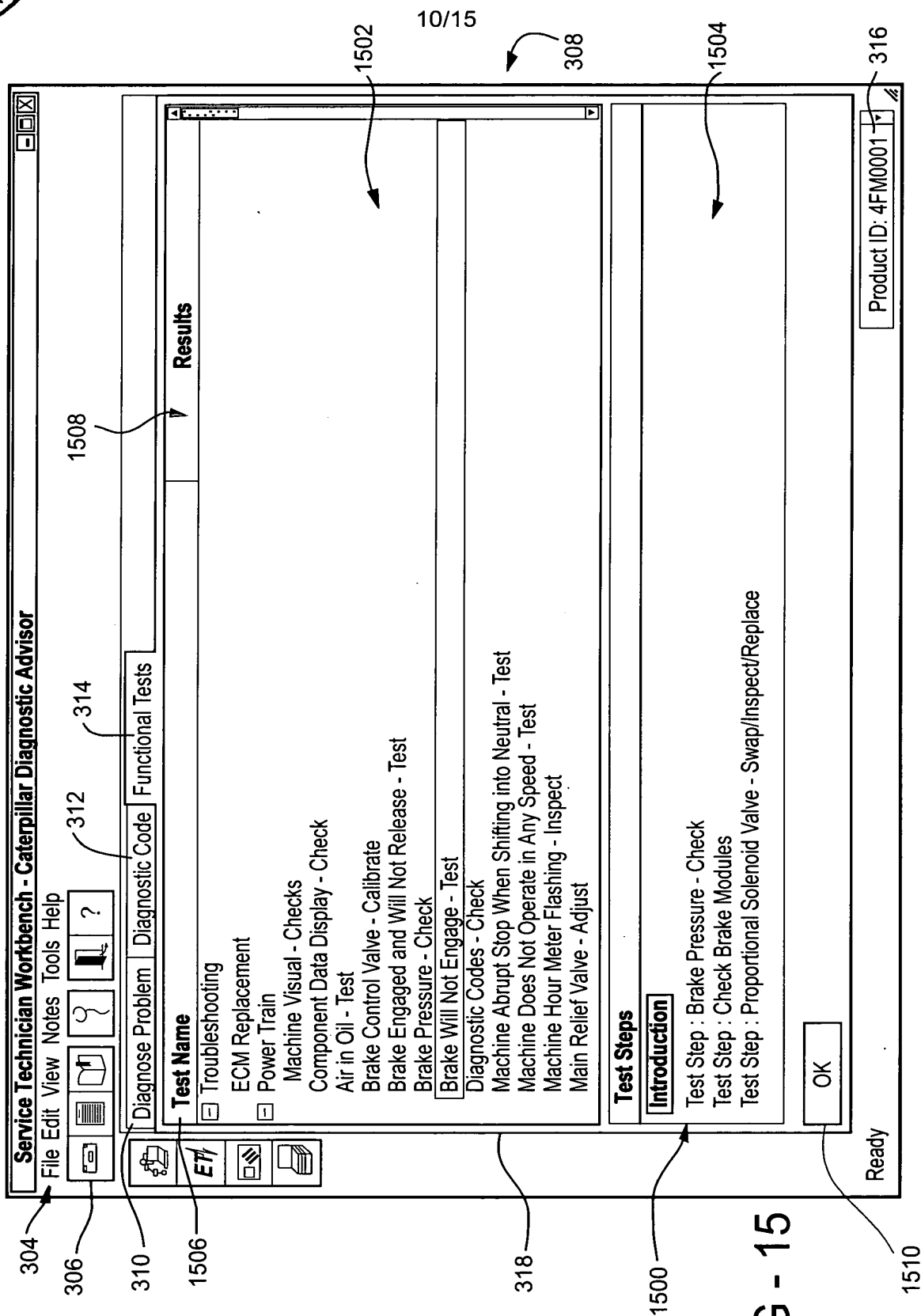
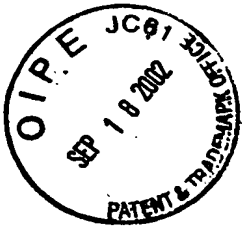


FIG - 15



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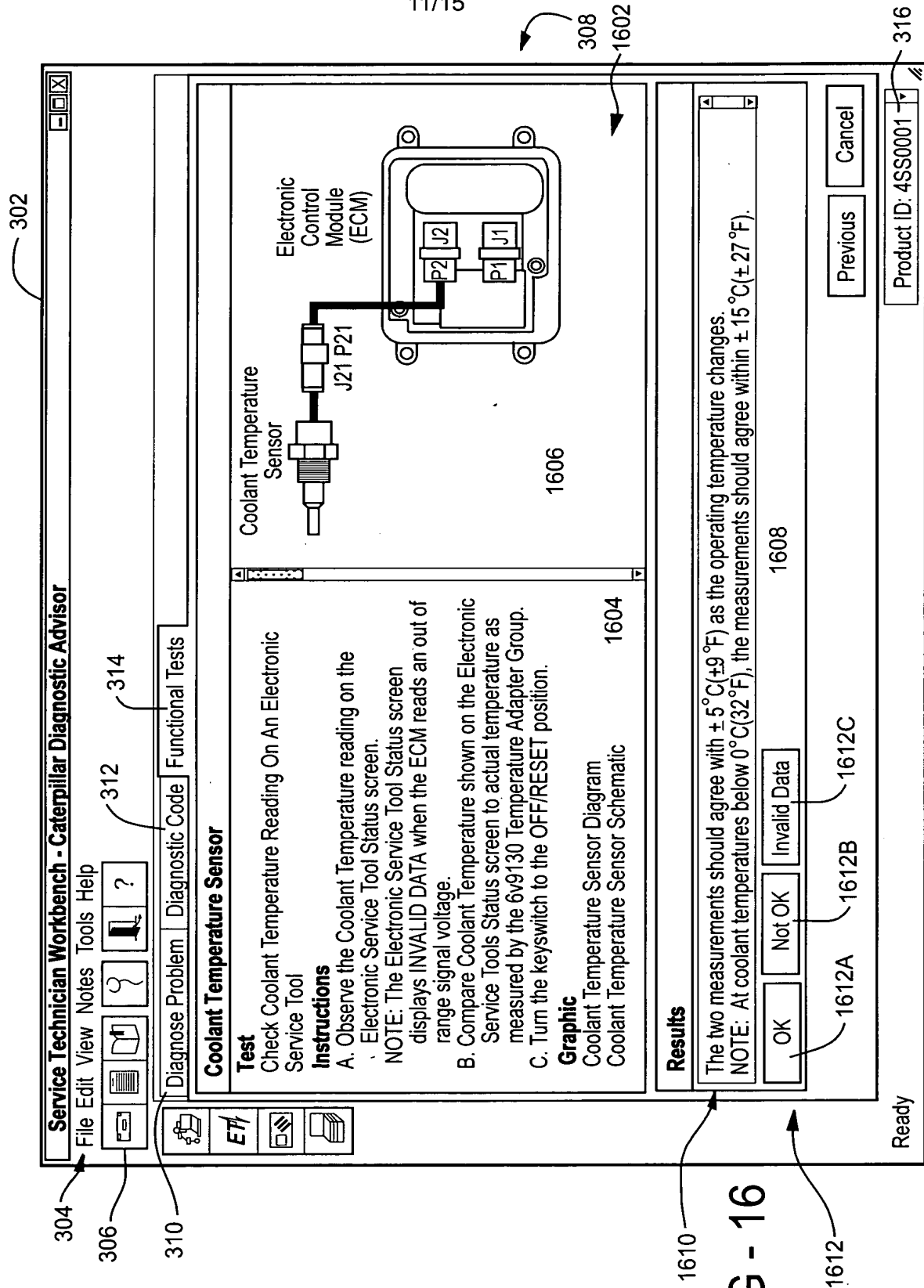
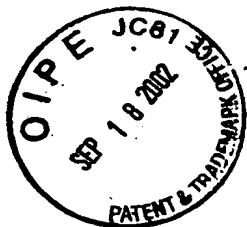


FIG - 16



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Service Technician Workbench - Caterpillar Diagnostic Advisor

File Edit View Notes Tools Help

Diagnose Problem

Diagnostic Code

Functional Tests

Report

Caterpillar Inc.

Diagnostic Detailed Report

1704

Dealership: bob  
Customer: test- Full Name (STW PILOT 3)  
Employee: 09/13/1999  
Work Order: 2KR  
Service Date: 980G WHEEL LOADER  
Serial Number: 0.000000  
Model: Service Meter Units:  
Description  
Engine won't crank

Questions	Answers
Description search tool active	Yes*

Print

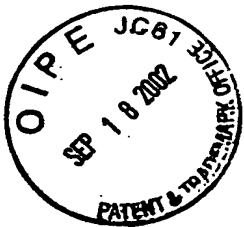
Save

Refresh

Ready

Product ID: 2KR0001

FIG - 17



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**Create New Report** [X]

Customer  Code:

**\* Name:**

Customer Complaint

Engine won't crank

Employee Name :  Full Name

Employee ID :  test

Service Date :  9/13/1999

\* - required

Service Meter Units: ET Detected:  Manually Entered:  0.000

Work Order:

Arrangement Number:  test

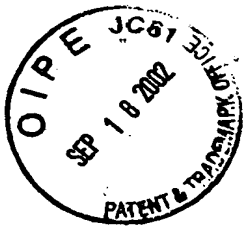
Create Report Cancel Help

FIG - 18



1804

1802



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X

Feedback Form

Please type in the following information to submit your improvement ideas:

Submitter

Name

Telephone

☐ Service Technician

☐ Service Planner

☐ Other- please specify

Did this diagnostic session solve your problem?

☐ Yes

☐ No

☐ Provided partial solution

Diagnosics allowed me to quickly and accurately identify and repair the root cause of the problem

☐ Strongly Agree

☐ Agree

☐ Neither

☐ Disagree

☐ Strongly Disagree

Next time I have a problem, I will use this system

☐ Yes

☐ No

☐ I don't know

Initial problem description

engine temperature

Describe the root cause

Additional tests performed and results

Describe the repair made

Additional feedback / suggestions

\* - Required

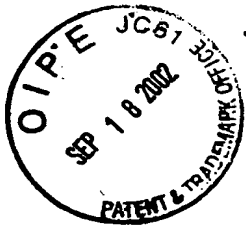
OK

Cancel

Clear

FIG - 19

1902



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Service Technician Workbench - Caterpillar Diagnostic Advisor

File Edit View Notes Tools Help

Diagnose Problem

Diagnostic Code

Functional Tests

Active/Logged Codes

New	Code	Code Description	Occurrences	Status
*	080-0002-11	Cylinder 2 Fault		Logged
*	080-0004-11	Cylinder 4 Fault		Active/Logged
*	080-0005-11	Cylinder 5 Fault		Active
*	080-0026-06	Multi-Function Output #1 Short Circuit		Logged
*	080-0030-08	Invalid PTO Throttle Signal		Active/Logged
	080-0001-11	Cylinder 1 Fault		Active
	080-0003-11	Cylinder 3 Fault		Logged
	080-0006-11	Cylinder 6 Fault		Active
	080-0022-13	Check Timing Sensor Calibration		Logged
	080-0026-05	Multi-Function Output #1 Open Circuit		Active
	080-0030-13	PTO Throttle Sensor Calibration		Active

Find

\* - New codes since last viewed

Ready

Product ID: 1LW0001

FIG - 20

2002